

Title (en)
INTENT-BASED TELEMETRY COLLECTION SERVICE

Title (de)
ABSICHTSBASIERTER TELEMETRIESAMMELDIENST

Title (fr)
SERVICE DE COLLECTE DE TÉLÉMÉTRIE À BASE D'INTENTION

Publication
EP 3961987 A1 20220302 (EN)

Application
EP 20207476 A 20201113

Priority
US 202016947930 A 20200824

Abstract (en)
A telemetry service can receive telemetry collection requirements that are expressed as an "intent" that defines how telemetry is to be collected. A telemetry intent compiler can receive the telemetry intent and translate the high level intent into abstract telemetry configuration parameters that provide a generic description of desired telemetry data. The telemetry service can determine, from the telemetry intent, a set of devices from which to collect telemetry data. For each device, the telemetry service can determine capabilities of the device with respect to telemetry data collection. The capabilities may include a telemetry protocol supported by the device. The telemetry service can create a protocol specific device configuration based on the abstract telemetry configuration parameters and the telemetry protocol supported by the device. Devices in a network system that support a particular telemetry protocol can be allocated to instances of a telemetry collector that supports the telemetry protocol.

CPC (source: CN EP US)
G06F 9/45558 (2013.01 - CN US); **G06F 9/5077** (2013.01 - US); **H04L 41/0806** (2013.01 - EP); **H04L 41/0853** (2013.01 - EP); **H04L 41/0895** (2022.05 - EP); **H04L 41/40** (2022.05 - EP); **H04L 41/5041** (2013.01 - CN); **H04L 43/0876** (2013.01 - EP); **H04L 43/20** (2022.05 - EP); **H04L 69/18** (2013.01 - CN); **H04Q 9/00** (2013.01 - CN); **G06F 2009/4557** (2013.01 - CN US); **G06F 2009/45591** (2013.01 - US); **G06F 2009/45595** (2013.01 - US); **G06F 2209/503** (2013.01 - US); **G06F 2209/505** (2013.01 - US); **H04L 41/0213** (2013.01 - EP); **H04L 41/0677** (2013.01 - EP); **H04L 41/5054** (2013.01 - EP); **H04L 43/0817** (2013.01 - EP); **H04L 43/16** (2013.01 - EP)

Citation (applicant)
KOMPELLA, R.R.YATES, J.GREENBERG, A.SNOREN, A.C.: "Detection and Localization of Network Black Holes", PROC. IEEE INFOCOM, 2007

Citation (search report)
• [Y] EP 3675423 A1 20200701 - JUNIPER NETWORKS INC [US]
• [Y] US 2020249979 A1 20200806 - MURAMATTI AKSHAY [US], et al
• [A] RIFTADI MOHAMMAD ET AL: "P4I/O: Intent-Based Networking with P4", 2019 IEEE CONFERENCE ON NETWORK SOFTWARE (NETSOFT), IEEE, 24 June 2019 (2019-06-24), pages 438 - 443, XP033602012, DOI: 10.1109/NETSOFT.2019.8806662

Cited by
EP4102804A1; US11516067B1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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EP 3961987 A1 20220302; CN 114185637 A 20220315; US 12039355 B2 20240716; US 2022058042 A1 20220224

DOCDB simple family (application)
EP 20207476 A 20201113; CN 202011267402 A 20201113; US 202016947930 A 20200824